

7/3/2018

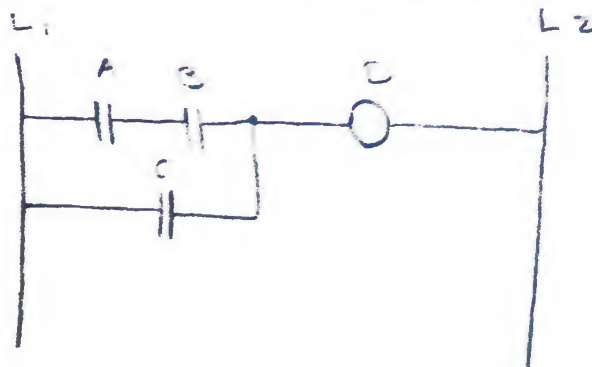
الاسم

م. د. ع. م.

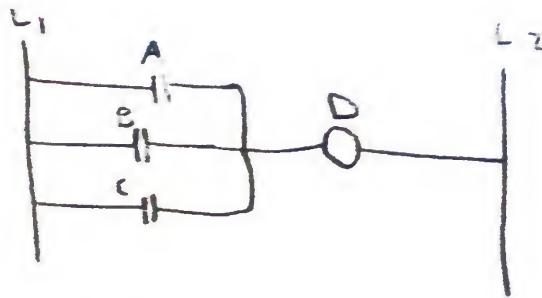
3

Ladder Diagrams for sheet 3

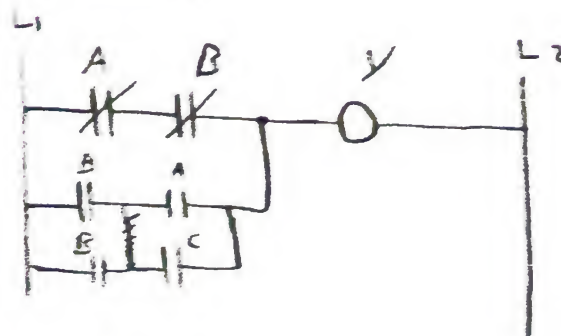
5) $D = AB + C$



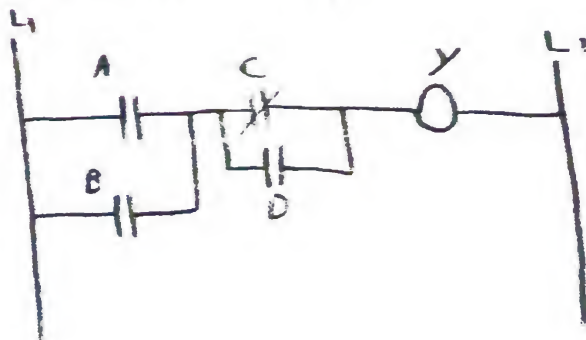
6) $D = A + B + C$



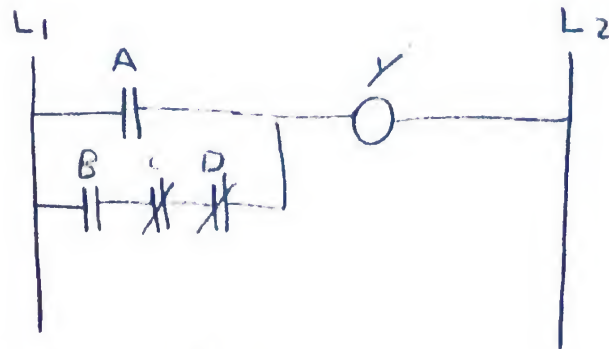
7) a) $y = A' B' + B(A + C)$



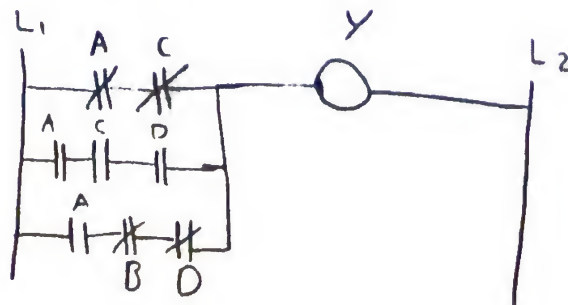
b) $y = (A + B)(C' + D)$



$$c) y = A + B(C+D)' = A + BC'D'$$

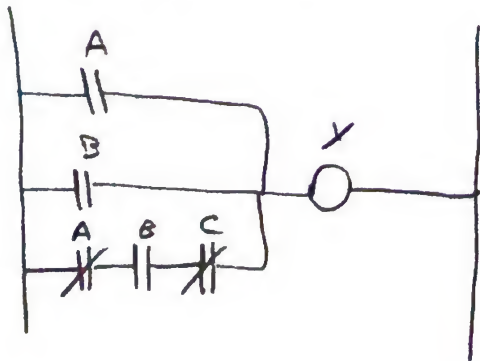


$$d) y = A'C' + ACD + AB'D'$$

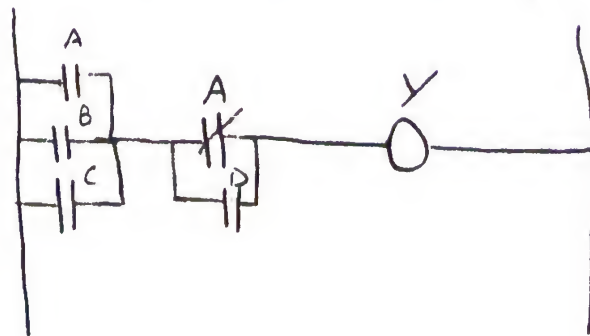


8) a)

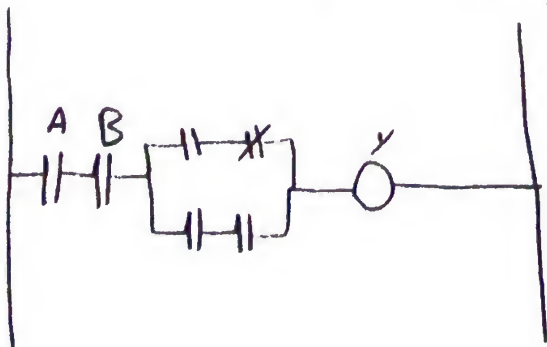
$$y = A + B + A'BC'$$



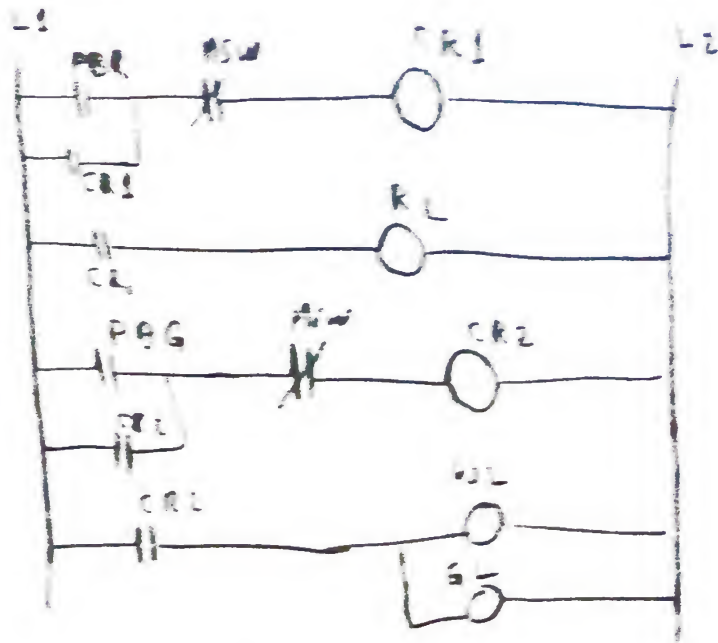
$$b) y = (A+B+C)(A'+D)$$



$$c) y = AB(CD' + EF)$$



9 MSW \rightarrow M.C. , PBR $\xrightarrow[N.C.]{} \text{Red Light}$ \rightarrow until MSW = 1
 PBG $\xrightarrow[N.O.]{} \text{all lights}$ \rightarrow until MSW = 1



10 MSW M.C. , PBR N.O. \rightarrow RL
 \rightarrow M1 ON
 PBG N.O. \rightarrow GL, WL, M1, M2

